

Notice of Allowability

Application No.

09/943,393

Examiner

PHUC T DANG

Applicant(s)

AHN ET AL.

Art Unit

2818

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amended filed on August 29, 2003.
2. ☒ The allowed claim(s) is/are 41-77 (renumbered as in new claims 1-37).
3. ☒ The drawings filed on 30 August 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 5 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. <u>0803</u> | 6 <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

PHUC T. DANG PP
PRIMARY EXAMINER

Art Unit: 2818

DETAILED ACTION

Response to Amendment

1. This Office Action is in response to Amendment filed on August 29, 2003.

Claims 1-40 have been canceled.

Claim 41, 43-45, 49-52, 55, 61-62, 72-74 and 77 have been amended.

Claims 41-77 are currently pending in this application.

Claims 41-77 are renumbered as in new claims 1-37.

Examiner's Amendment

2. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.

Amendment in the Specification on August 29, 2003 as follows:

On page 1, line 3, before the heading, "Field of the Invention", insert the following paragraph:

Cross Reference to Related Application(s)

This application is a divisional of U.S. Application No. 09/514,629, filed on February 28, 2000, now U.S. Patent No. 6,217,103, the specification of which is incorporated herein by reference.

Examiner's Statement of Reasons for Allowance

3. Claims 41-77 are allowed.

Art Unit: 2818

4. The following is an examiner's statement of reasons for allowance:

With respect to claims 41, 47, 55, 62, 67 and 73, the prior art of record, taken alone or in combination, fails to teach or reasonably suggests a circuit on a single substrate, comprising a memory circuit portion coupled to the logic circuit portion, wherein the memory circuit portion further includes a transistor with a dielectric layer having a second thickness greater than the dielectric layer of the first thickness, in combination with the rest of the limitations of claims 41, 47, 55, 62, 67 and 73.

With respect to claim 77, the prior art of record, taken alone or in combination, fails to teach or reasonably suggests a circuit on a single substrate formed by the method comprising a step of forming a thin dielectric layer on one of the pair of gate oxides, wherein the thin dielectric layer exhibits higher resistance to oxidation than the substrate material; and forming the other of the pair of gate oxides to a second thickness, in combination with the rest of the limitations of claim 77.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submission should be clearly labeled "Comments on Statement of Reasons for Allowance".

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuc T. Dang whose telephone number is 703-305-1080. The examiner can normally be reached on 8:00 am-5:00 pm.

Art Unit: 2818

7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Nelms can be reached on 703-308-4910. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-5841 for regular communications and 703-308-5841 for After Final communications.

8. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Phuc T. Dang

PP

A handwritten signature in black ink, appearing to read 'Phuc T. Dang', with a stylized flourish at the end.

Primary Examiner

Art Unit 2818

October 2, 2003